

25X1A

5 October 1965

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Enclosed are five copies of Technical Report
No. 5 on the above-referenced contract.

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WB:aq

Enclosures: Technical Report No. 5 (5 copies)

cc: [redacted] (1)
Contracting Officer

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Technical Report No. 5

Government Contract

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a. Current Status of Work

The following areas have been worked on during the period starting June 25, 1965.

1. Target fabrication. A definitive try was made to see if we could reach target frequencies as high as 1000 1/mm. This goal is definitely achievable using our present methods. During this trial a lot was learned about the requirements needed in the camera to produce this type of target and the final desing of the target cameras was started. The present equipment and results were demonstrated on July 8, 1965 to your representatives.
2. With the filters we received we have been making experiments to determine the best values of visibility, etc. These experiments have not yet been concluded and reporting of results are therefore reserved for the next reporting period.

We did find that the most difficult setting to make was the matching of magnifications. This has been greatly simplified by the following technique. The area and number of lines in the filter is made

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much larger than the target image. On the filter we have two lines indicating the total length of the target image needed. The adjustment time necessary to make a measurement is very much reduced by this method.

We further found that our present adjustment on the visibility of the target was much too low and we are experimenting to find the best way of adjusting this visibility.

3. Proposals were prepared with respect to the cost of equipment for additive measurements.

b. Problem Areas Encountered

No problem areas were encountered.

c. Projected Work for Next Monthly Period

Building of the final target cameras. Finishing the experimental maximum values for the various parameters. Starting the final design of the equipment.

d. Status of Funds Expended

From the period of June 25, 1965 to July 23, 1965 the sum of was spent on subject contract. This figure includes direct labor, materials, overhead and G & A, and fixed fee.

e. Documentation of any verbal commitments and/or agreements with the Technical Representatives of the Contracting Officer during the reporting period

Our facilities were visited by your representatives on July 8, 1965. The work done up to that date was reviewed.

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Our alternative solutions were discussed and it was agreed that we would submit more precise information relative to these alternative routes, including estimated costs.

Submitted by:

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